



Title: METHOD AND DEVICE FOR
SUPPRESSING NOISE IN TELEPHONE
DEVICES

Applicant: Gerhard Schmidt

Serial No.: 09/914,281

Atty Docket: 1406/14

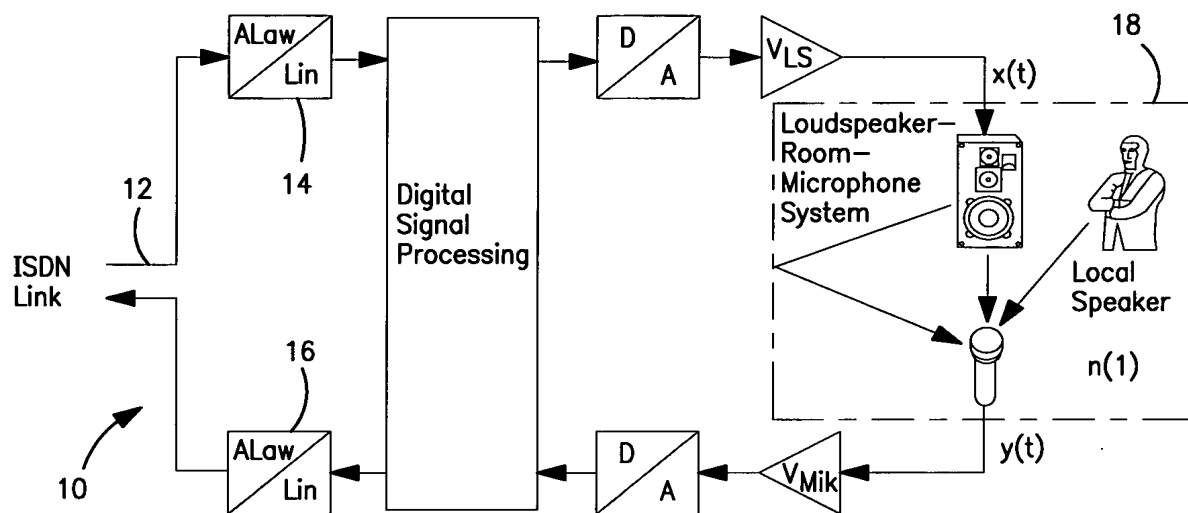


FIG. 1

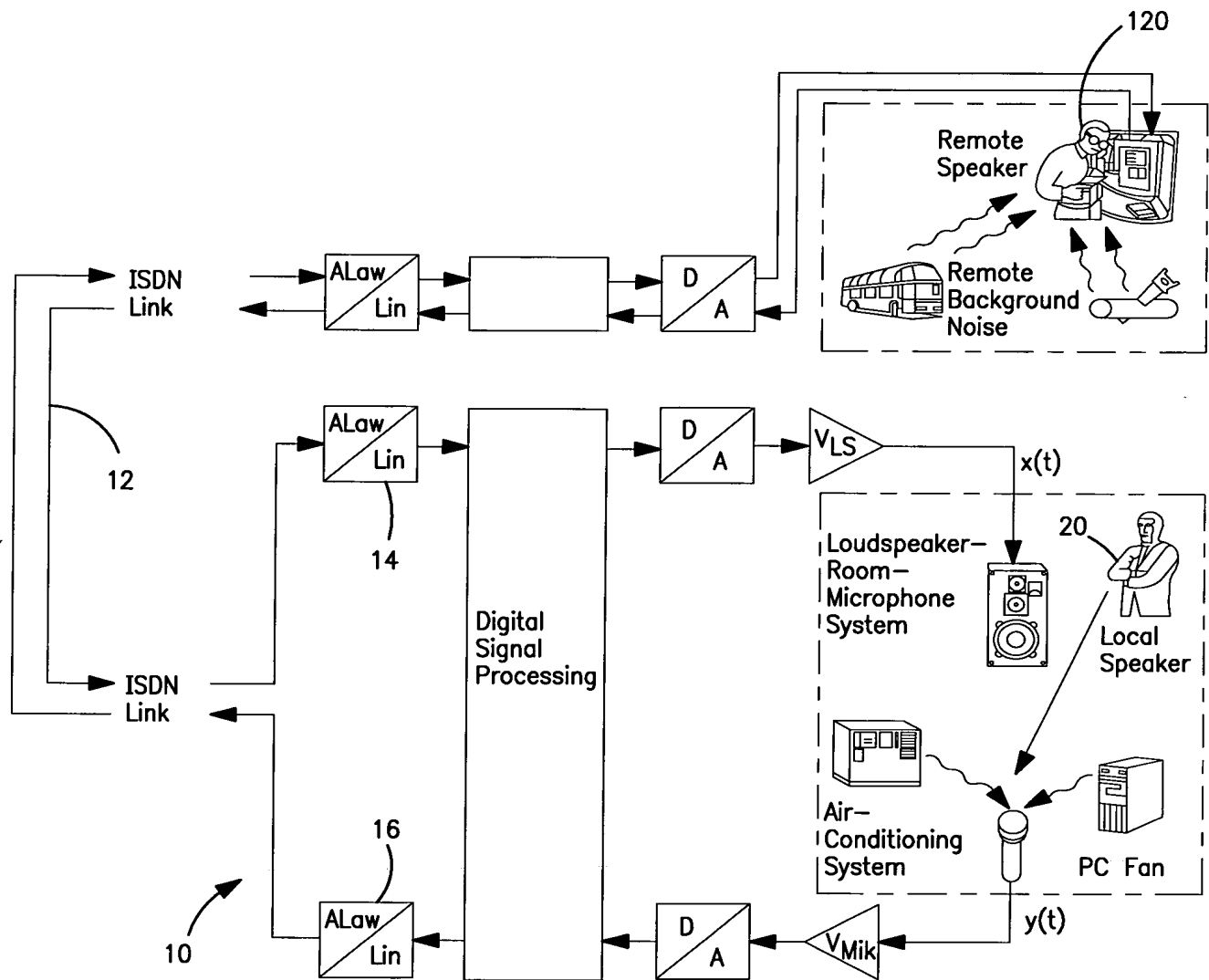


FIG. 2

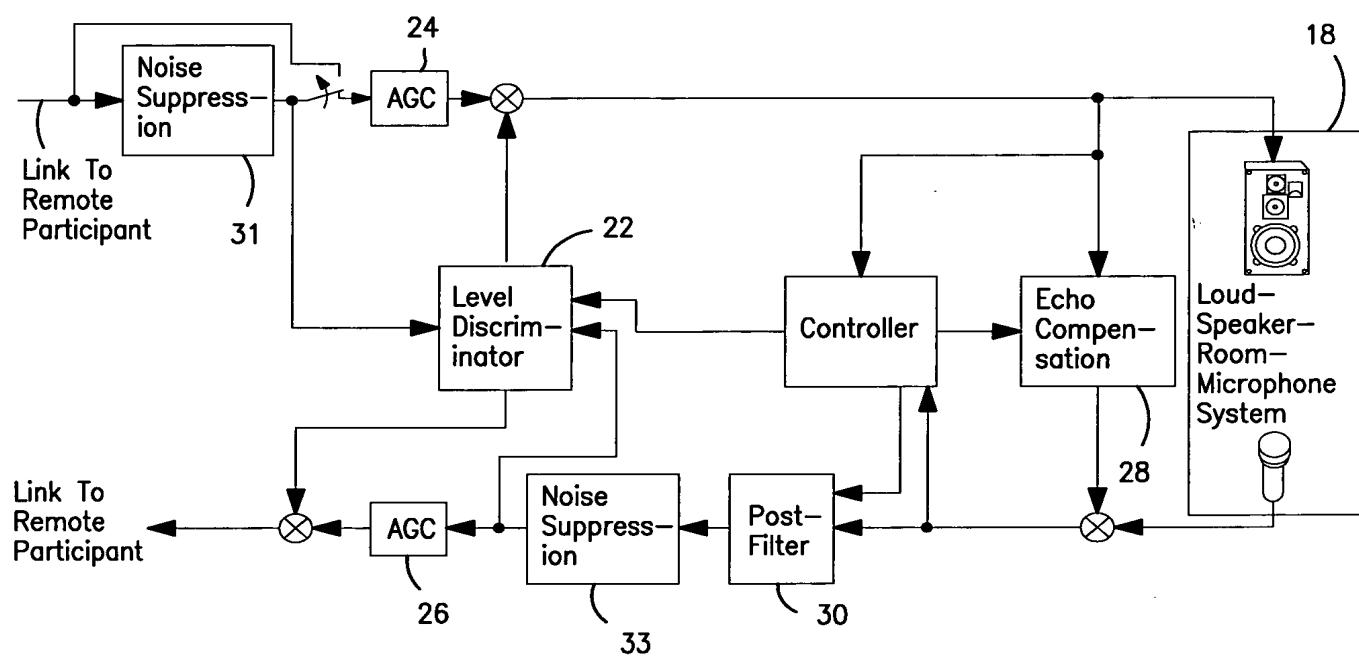


FIG. 3

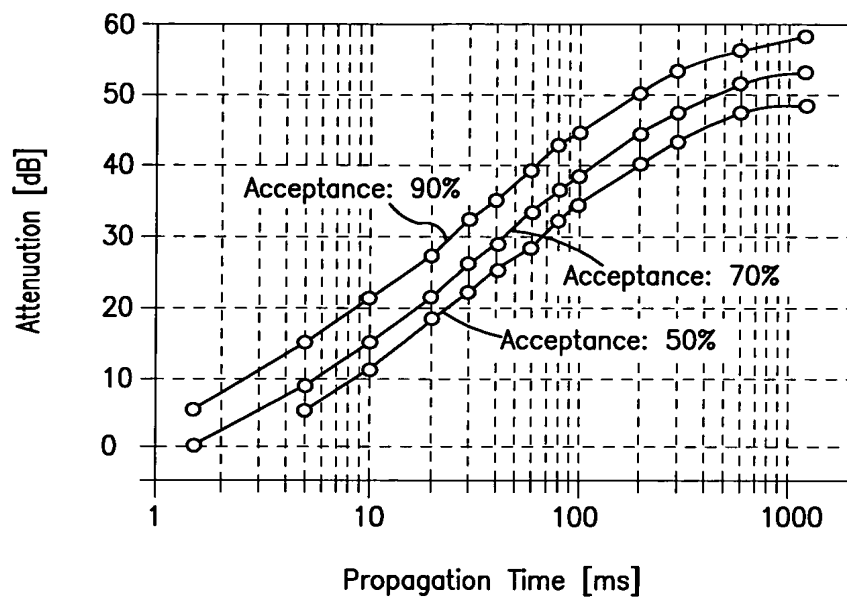


FIG. 4

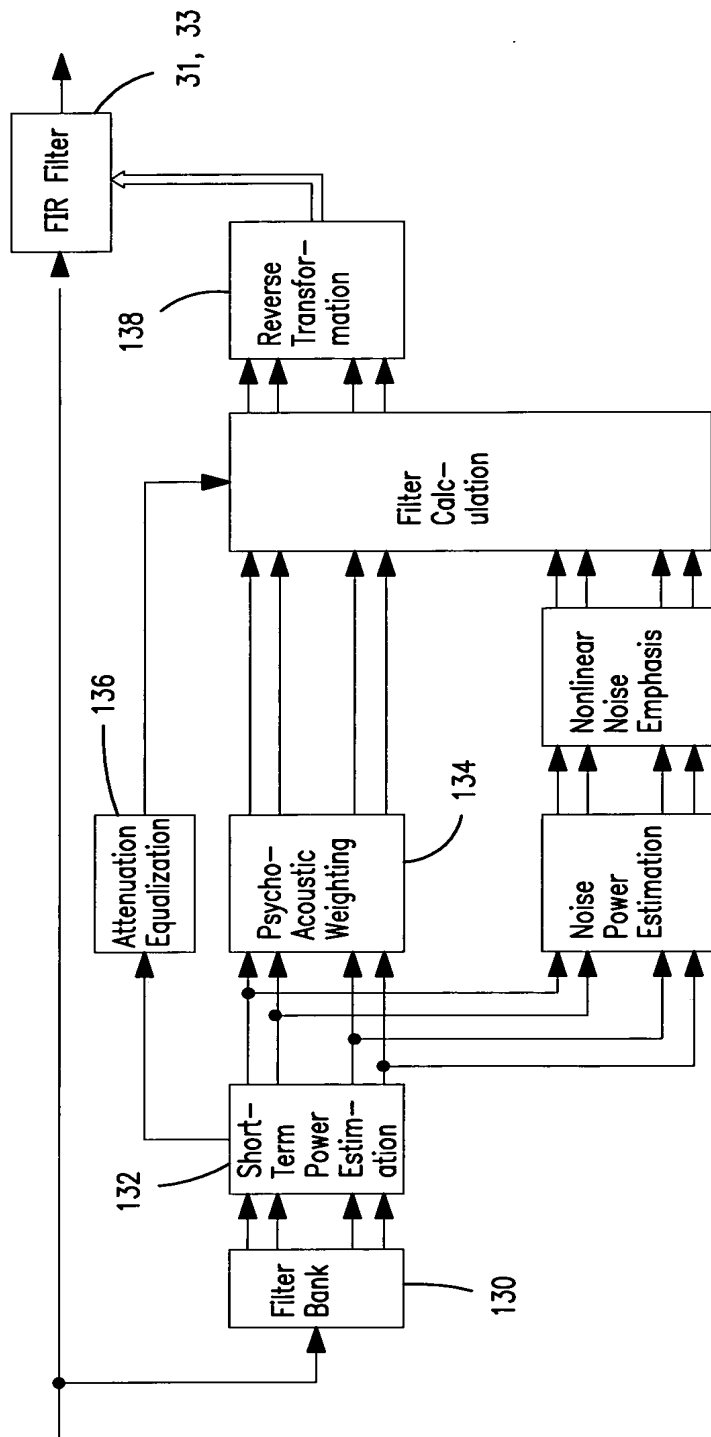


FIG. 5

Title: METHOD AND DEVICE FOR
SUPPRESSING NOISE IN TELEPHONE
DEVICES

Applicant: Gerhard Schmidt
Serial No.: 09/914,281
Atty Docket: 1406/14

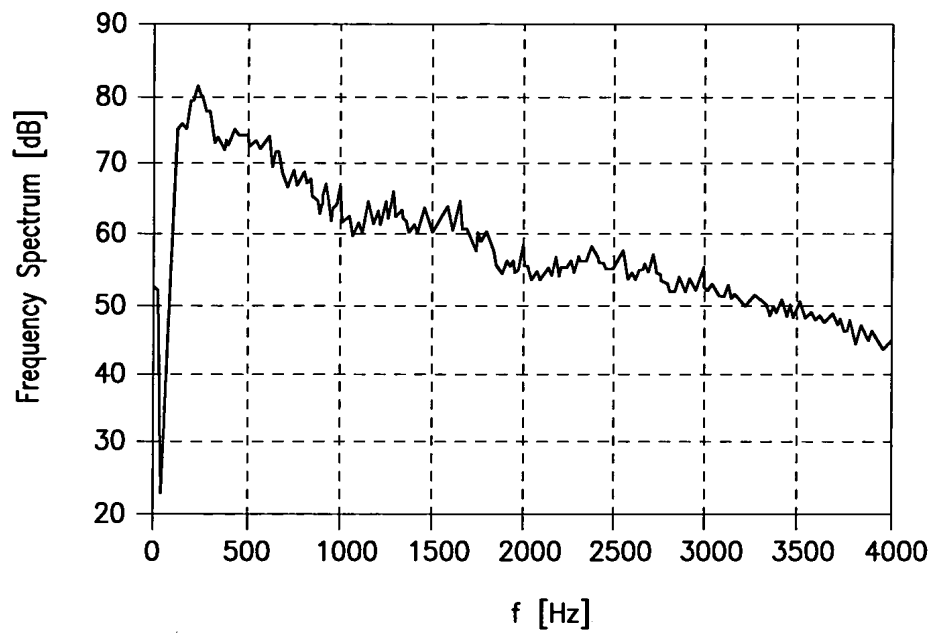


FIG. 6

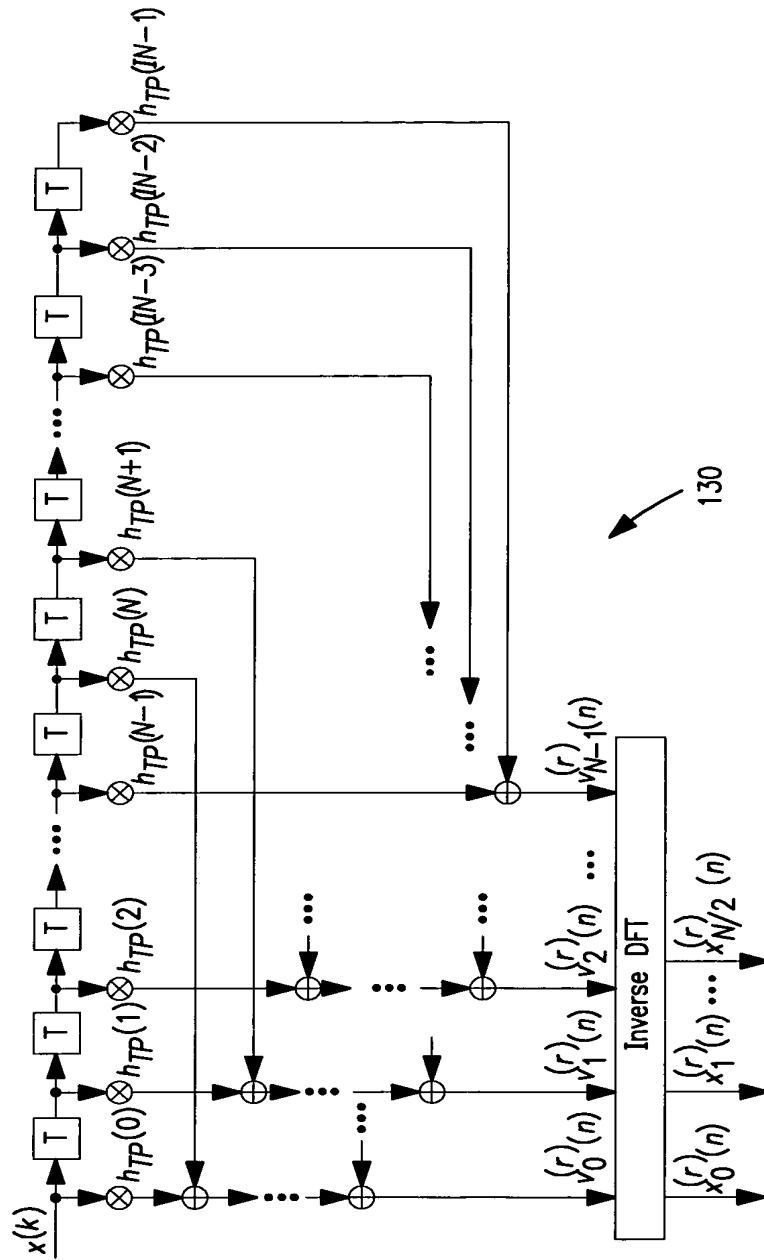


FIG. 7

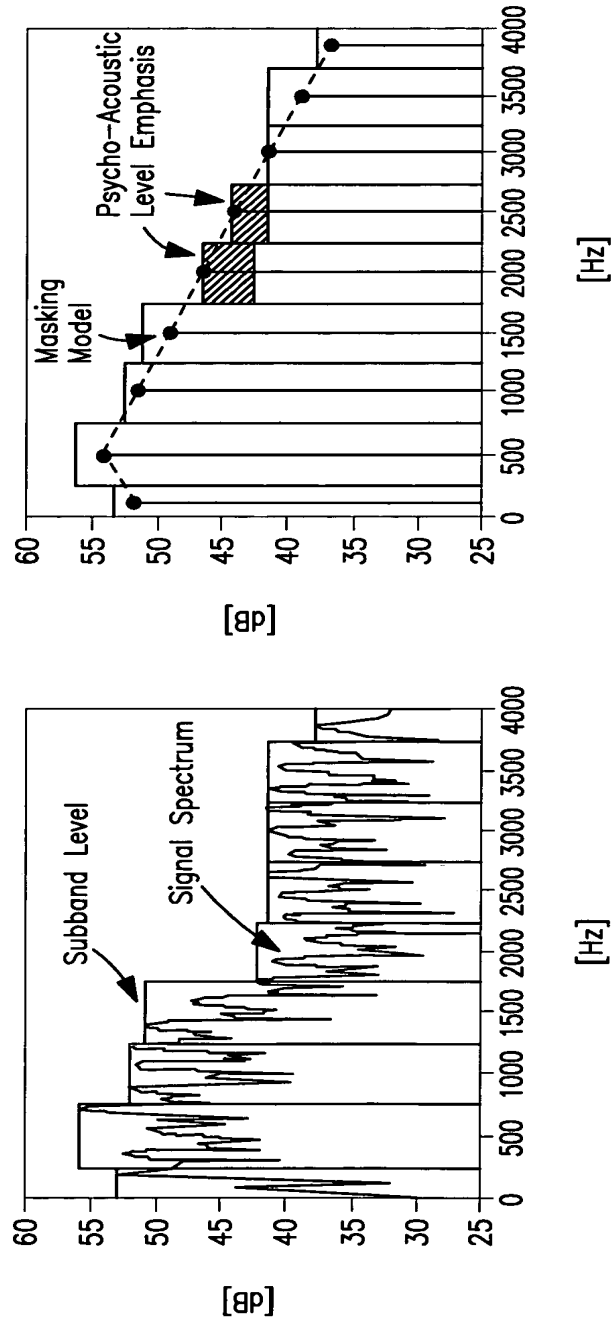


FIG. 8

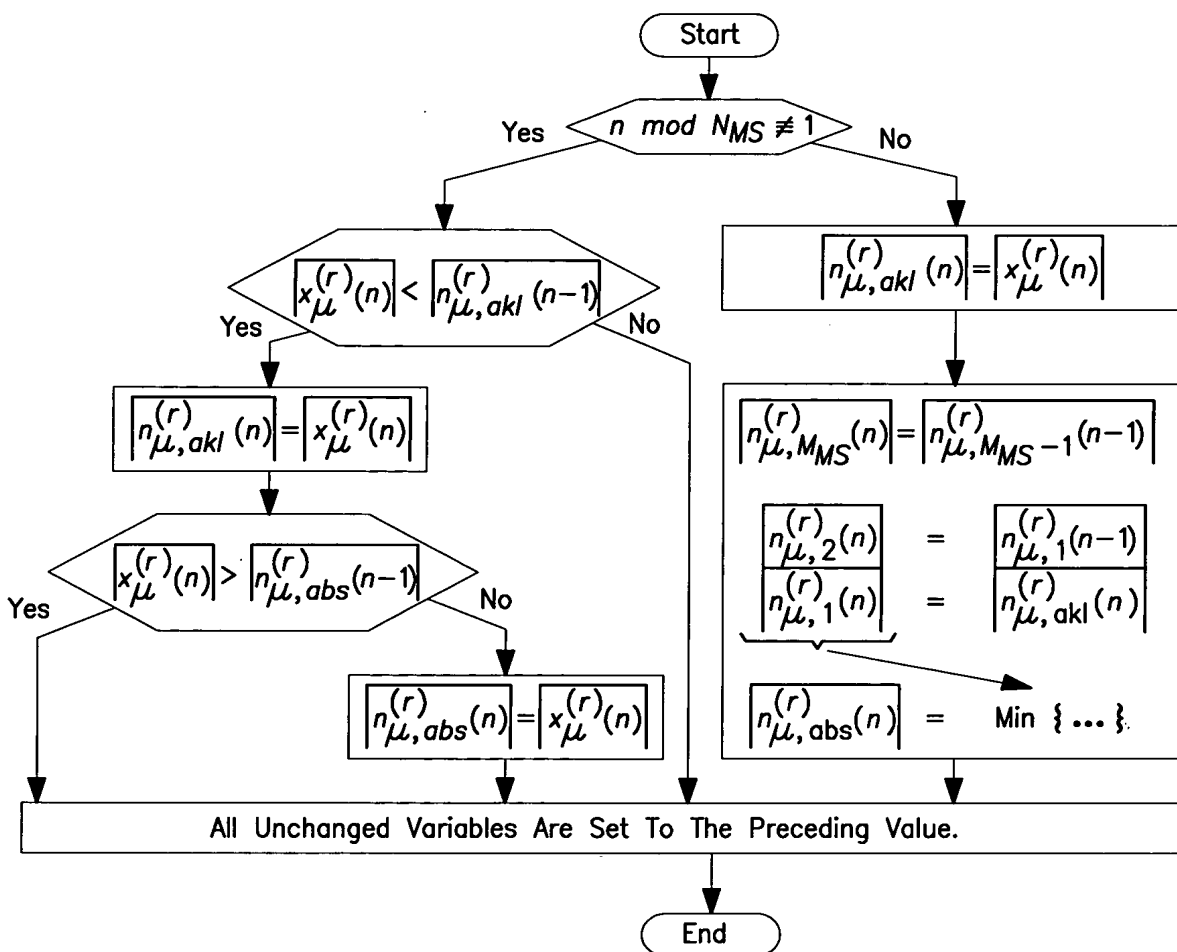


FIG. 9

Title: METHOD AND DEVICE FOR
SUPPRESSING NOISE IN TELEPHONE
DEVICES

Applicant: Gerhard Schmidt
Serial No.: 09/914,281
Atty Docket: 1406/14

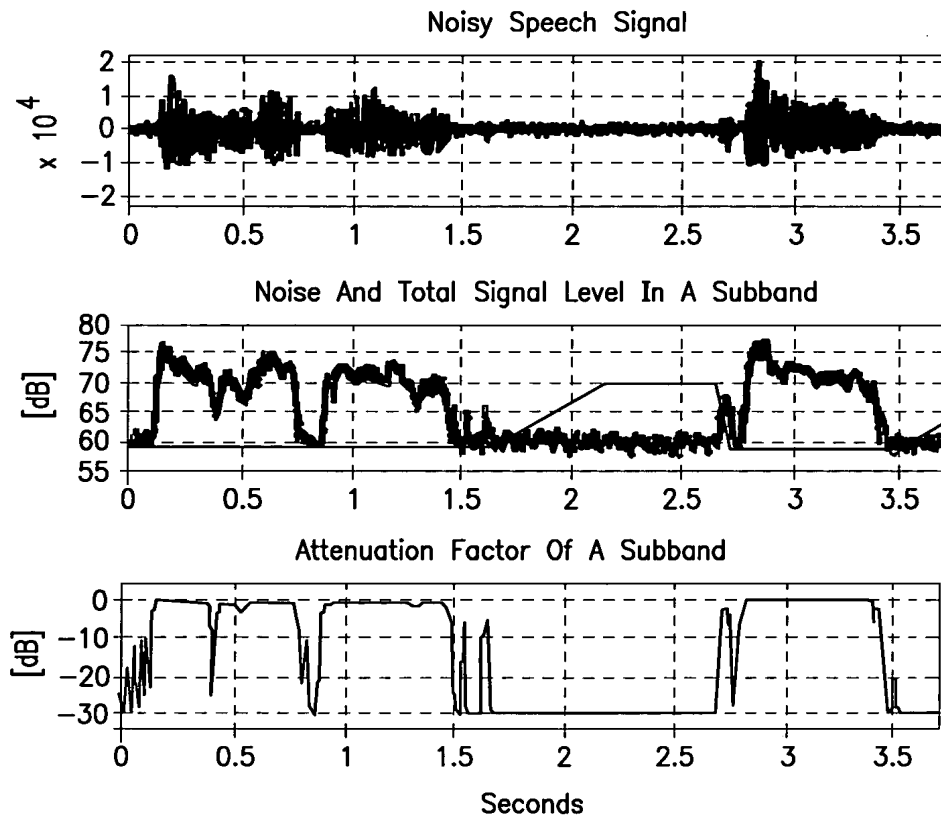


FIG. 10

$$\begin{array}{l}
 \left. \begin{array}{l}
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) \cos \left(\frac{2\pi}{N} i \frac{N}{2}\right) + b_{\frac{N}{2}}^{(r)}\left(\frac{k}{r}\right) (-1)^{\frac{N}{2}} \\
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) \cos \left(\frac{2\pi}{N} i \left(\frac{N}{2}-1\right)\right) + b_{\frac{N}{2}-1}^{(r)}\left(\frac{k}{r}\right) (-1)^{\left(\frac{N}{2}-1\right)} \\
 \vdots \\
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) \cos \left(\frac{2\pi}{N} i\right) - b_1^{(r)}\left(\frac{k}{r}\right) \\
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) + b_0^{(r)}\left(\frac{k}{r}\right) \\
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) \cos \left(\frac{2\pi}{N} i\right) - b_1^{(r)}\left(\frac{k}{r}\right) \\
 \vdots \\
 b_o^{(r)}\left(\frac{k}{r}\right) + \frac{2}{N} \sum_{i=1}^{\frac{N}{2}-1} b_i^{(r)}\left(\frac{k}{r}\right) \cos \left(\frac{2\pi}{N} i \left(\frac{N}{2}-1\right)\right) + b_{\frac{N}{2}-1}^{(r)}\left(\frac{k}{r}\right) (-1)^{\left(\frac{N}{2}-1\right)}
 \end{array} \right\} q(k)
 \end{array}$$

if $k \bmod r \equiv 0$

$$\left. \begin{array}{l}
 q(k-1) \\
 \text{Otherwise}
 \end{array} \right\}$$

FIG. 11